

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A pumping system having built-in safety features including an air purge mechanism within a syringe connector comprising, in combination:

a source of fluid for selective pressurization,
a mechanism for applying pressure to said fluid,
a conduit for selectively carrying said fluid from said source when said fluid is pressurized and

a container of a viscous material connected to said conduit to receive pressurized fluid from said conduit to selectively force said viscous material from said container, whereby the system is effective for pumping at moderate to high pressures during surgical procedures without risk to patients.

Claim 2 (Original): The system recited in claim 1 wherein, said conduit is a flexible tube.

Claim 3 (Original): The system recited in claim 1 wherein, said source of fluid comprises a reservoir for storing said fluid.

Claim 4 (Original): The system recited in claim 1 wherein, said fluid is an incompressible liquid.

Claim 5 (Cancelled): The system recited in claim 1 wherein, said container comprises a syringe.

Claim 6 (Currently Amended): The system recited in claim 1 including, a handle device for supporting said source of fluid.

Claim 7 (Currently Amended): The system recited in claim 6 wherein, said mechanism for applying pressure to said fluid comprises:

trigger means mounted to said handle device for selectively applying pressure to said fluid in said source of fluid.

Claim 8 (Currently Amended): The system recited in claim 6 including, housing means formed with said handle device, and valve means mounted in said housing means for controlling the movement of said fluid from said source of fluid through said conduit.

Claim 9 (Original): The system recited in claim 1 including, connector means for connecting said conduit to said container.

Claim 10 (Cancelled): The system recited in claim 9 wherein, said connector means rotates about said conduit to permit selective bleeding of air from said container.

Claim 11 (Original): The system recited in claim 5 wherein, said syringe includes a plunger movable therein.

Claim 12 (Original): The system recited in claim 1 including, a manual pressure release mechanism operatively connected to said source of fluid for selectively relieving pressure from said fluid.

Claim 13 (Currently Amended): A pumping system for medical device usage having a hydraulic connection comprising, in combination:

a source of fluid for selective pressurization,
handle means for supporting said source of fluid
a mechanism for applying pressure to said fluid, said mechanism

comprises,

trigger means mounted to said handle means for selectively applying pressure to said fluid in said source of fluid,

a conduit for selectively carrying said fluid from said source when said fluid is pressurized, and

a container of a viscous material connected to said conduit to receive pressurized fluid from said conduit to selectively force said viscous material from said container;

whereby automatic purging of air provides an effective incompressible working fluid preventing over pressurization within the self-contained fluid reservoir.

Claim 14 (original): The system recited in claim 13 including, housing means formed with said handle means valve means mounted in said housing means for controlling the movement of said fluid from said source of fluid through said conduit, and connector means for connecting said conduit to said container.

Claim 15 (Cancelled): The system recited in claim 10 wherein, said connector includes,

a hollow housing for receiving an end of said conduit through an axial opening therein,

a set screw threadedly engaged with the interior of and hollow housing and surrounding said end of said conduit,

seal means surrounding said end of said conduit, said set screw adapted to force said ferrule means and said seal means into contact with the interior of said hollow housing to provide a seal around said conduit in said hollow housing.